ABSTRACT OF THE DISCLOSURE

The invention is a new boring unit for complex parts, comprising a fixing pin (A), suitable for holding the piece (O) in its hole, and two concentric cylinders (Ci, Ce) coaxial with said pin (A) that are set rotating in the same direction by two electric motors (Mi, Me). The inner cylinder (Ci) is provided, at its end facing the grip (Ae) of the pin (A), with a conical toothing (Cie), and the outer cylinder (Ce) is provided, at its end facing the grip (Ae) of the pin (A), with a tool-holder (P) with radial translation mechanisms (Pm) of the tools (U) and a bevel gear wheel (Pie) meshing with the conical toothing (Cie) of the inner cylinder (Ci) and connected with the radial translation mechanism (Pm) of the tools (U). The radial translation of the tools (U) is obtained by rotating said cylinders (Ci, Ce) at different speeds by means of the electric motors (Mi, Me), that is, by generating a relative motion between them.